



## **RIDOT TMC Incident Statistics 4/1/2010 To 6/30/2010**

The Rhode Island transportation system serves 39 cities and towns, encompassing rural, metropolitan, and tourist areas. The Rhode Island Department of Transportation's Transportation Management Center (RIDOT TMC) has been addressing the problem of increasing congestion in Rhode Island by informing the traveler of crashes and unusual delays. In doing so, the TMC has provided measurable benefits to the transportation system, and has developed the technology and institutional awareness necessary to expand the Intelligent Transportation Systems (ITS) Program (called RhodeWays) to the benefit of Rhode Island travelers.

The RIDOT TMC maintains detailed statistics on incidents that we manage from our center. Because the data are entered by our TMC Operators, the statistics are dependent on what we can observe on the roadways with our equipment. Review and compilation of these statistics is done quarterly. By making these statistics available to you, we hope that you can learn more about the program and understand the benefit of the services we provide to the Rhode Island motoring public.

The types of incidents tabulated in this report include disabled vehicles, debris on the roadway, emergency roadwork, vehicle accidents, and vehicle rollovers. Additionally, a category exists for congestion delays that are outside of typical recurring congestion. The TMC does assist in information dissemination for planned events (such as construction) as well, but those types of events are not included in the statistics. Also, abandoned vehicles are not included since they tend to skew the statistics.

We hope you find this report interesting and that it helps in understanding the significant benefit that the RhodeWays program provides to the people who travel Rhode Island's roadways every day. Also, please remember to check the TMC website frequently for updates (<http://www.tmc.state.ri.us>), including construction and incident information.

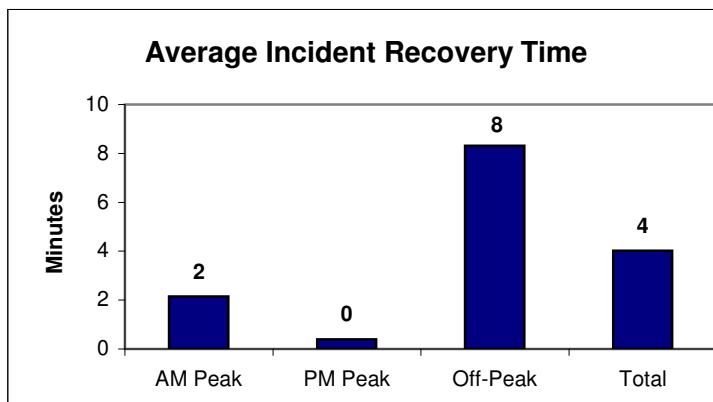
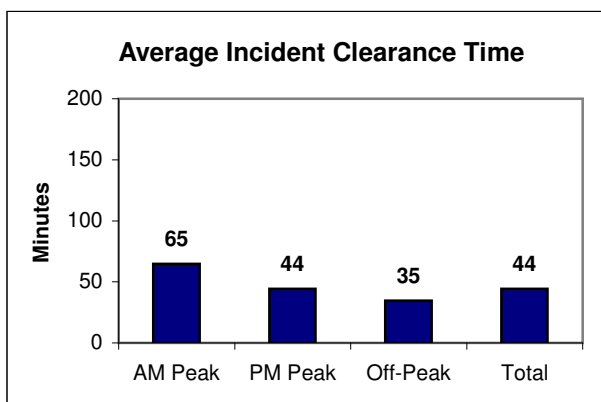
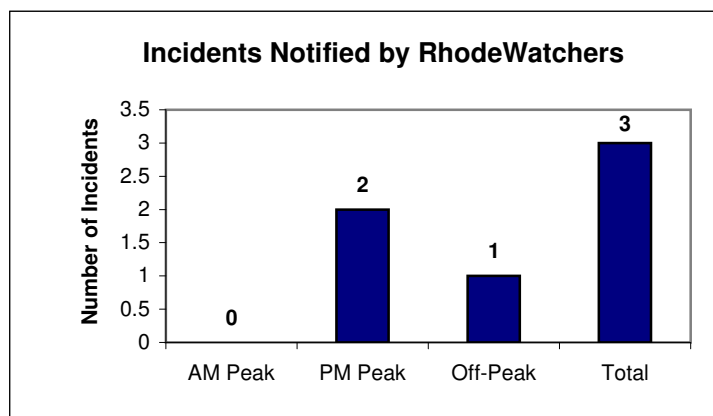
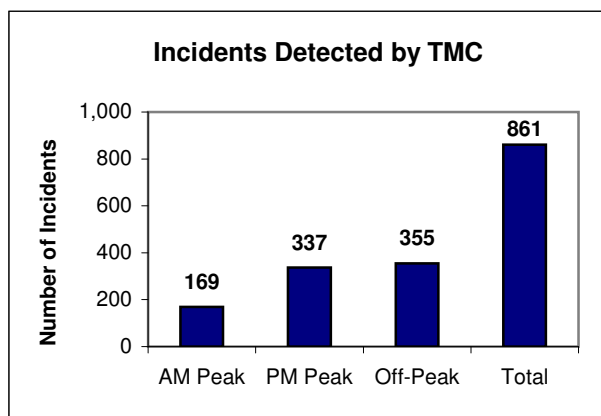
# RIDOT TMC Incident Statistics Report

## 1. Peak Period Incident Statistics\*

	AM Peak	PM Peak	Off-Peak	Total
Number of Incidents	174	345	368	887
Avg. Incident Duration (min)	67	45	43	48
Avg. Incident Clearance Time (min)	65	44	35	44
Avg. Incident Recovery Time (min)	2	0	8	4
# Detected by TMC Operators (CCVE)	101	143	157	401
# Detected by TMC, State Police	68	194	198	460
# Notified by RhodeWatchers	0	2	1	3
# of Messages Posted VMS	13	32	54	99
# of Messages Posted DMS	42	128	137	307
# of Messages Posted HAR	39	82	71	192
# of Messages posted Web	162	327	323	812
Avg. Delay Cost**	\$282,535	\$188,915	\$181,177	\$204,070
Total Delay Cost	\$49,161,045	\$65,175,811	\$66,673,228	\$181,010,084

\* AM Peak: 6:00AM to 10:00 AM, PM Peak: 3:00PM to 7:00PM, Monday - Friday

\*\* Delay Cost is a function of incident duration, volume on the roadway, delay per person, and cost per hour of delay for both commercial and personal vehicles. Average delay cost includes only incidents with a lane blockage and represents average cost per incident.



*Note: Statistics in this report are only for incidents that the TMC reported or responded to. They do not include all incidents that occurred on Rhode Island roadways*

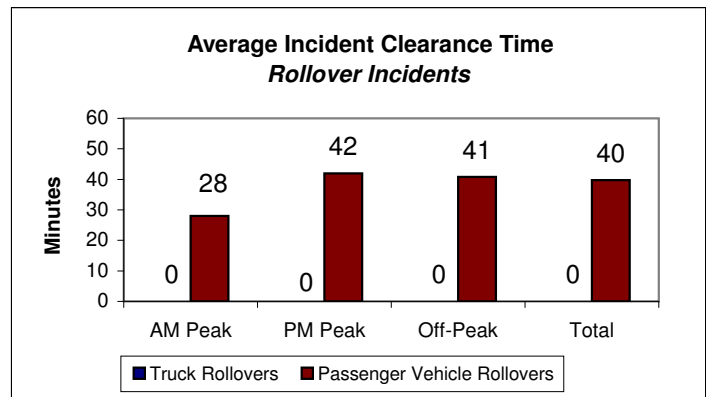
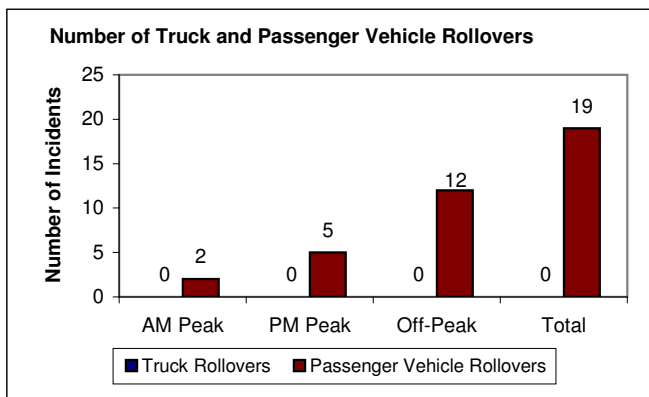
**Incident Clearance Time** is the time from the start of an incident (or when it is detected) to the time it is cleared from the roadway.

**Incident Recovery Time** is the time it takes for the roadway to be rid of residual delay following incident clearance. It is based on TMC Operator observation.

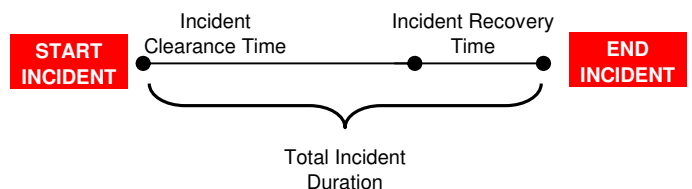
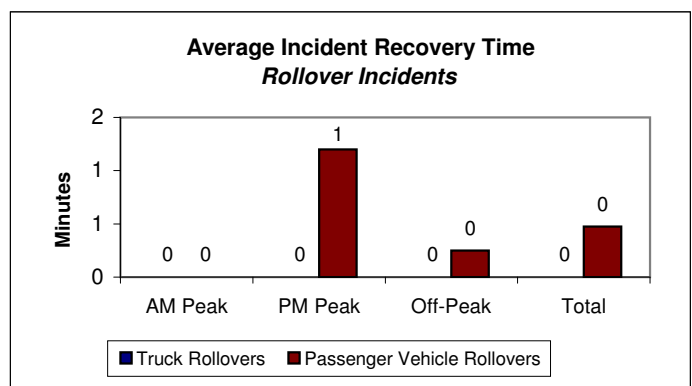
## 2. Rollover Incident Statistics\*

VEHICLES	Trucks				Automobiles			
	AM Peak	PM Peak	Off-Peak	Total	AM Peak	PM Peak	Off-Peak	Total
No. of Rollovers	0	0	0	0	2	5	12	19
Avg. Incident Duration (min)	0	0	0	0	28	43	41	40
Avg. Incident Clearance Time (min)	0	0	0	0	28	42	41	40
Avg. Incident Recovery Time (min)	0	0	0	0	0	1	0	0

\* AM Peak: 6:00AM to 10:00 AM, PM Peak: 3:00PM to 7:00PM, Monday - Friday



Roadway	Exit Number	Number Of Rollovers
<i>Interstate 295 Northbound</i>	6	2
<i>Interstate 295 Southbound</i>	4	1
<i>Interstate 95 Northbound</i>	18	1
<i>Interstate 95 Northbound</i>	23	1
<i>Interstate 95 Northbound</i>	27	1
<i>Interstate 95 Northbound</i>	22A	1
<i>Interstate 95 Northbound</i>	16	1
<i>Interstate 95 Northbound</i>	15	2
<i>Interstate 95 Southbound</i>	10A	1
<i>Interstate 95 Southbound</i>	6A	1
<i>Route 10 Southbound</i>	N/A	1
<i>Route 10 Southbound</i>	N/A	1
<i>Route 138 Westbound</i>	N/A	1
<i>Route 146 Southbound</i>	N/A	1
<i>Route 146 Southbound</i>	N/A	1
<i>Route 37 Westbound</i>	1B	1
<i>Route 6 Eastbound</i>	N/A	1
<i>Route 37 Westbound</i>	1B	1
<i>Route 6 Eastbound</i>	N/A	1
<b>TOTAL</b>		<b>21</b>



### 3. Incidents by Severity Level

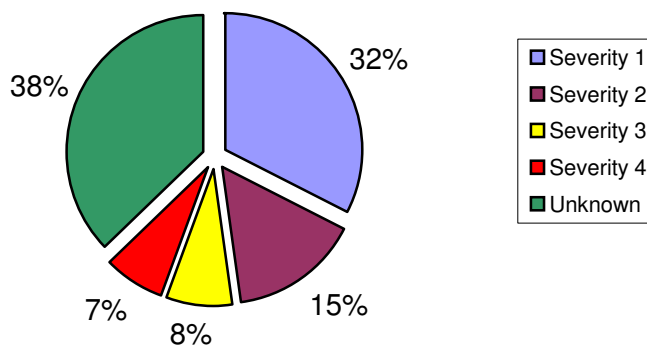
Severity Level*	No. of Incidents
Severity 0	384
Severity 1	163
Severity 2	77
Severity 3	40
Severity 4	36
Unknown	187
<b>Total</b>	<b>887</b>

Number of Incidents with a Secondary Incident:

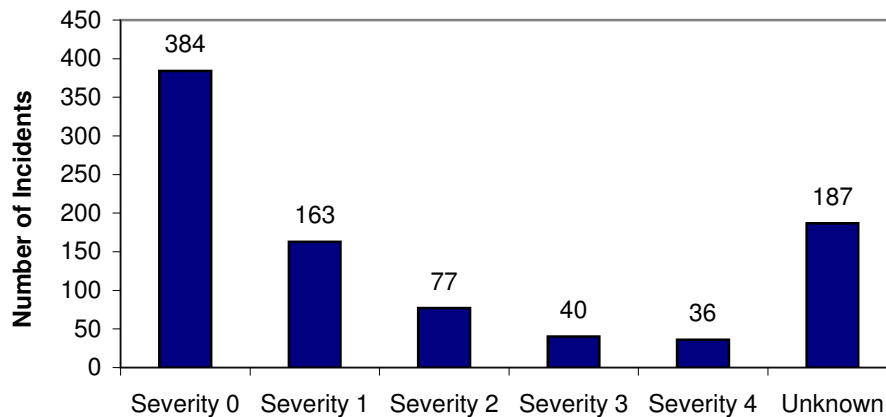
Percentage of Incidents with a Secondary Incident:

Note: A "secondary" incident is one that is the result of an earlier incident.

**Percent of Incidents by Severity Level**



**Number of Incidents by Severity Level**



#### \*Definition of Incident Severity Levels:

*Severity 0:* No injuries and no travel lanes blocked

*Severity 1:* 1/4+ travel lanes blocked with no injuries OR median/shoulder closed with injuries

*Severity 2:* 1/3 or 2/4+ lanes blocked OR Fire w/ 0 lanes closed OR hazardous materials (HAZMAT) w/ 0 lanes closed

*Severity 3:* 1/2 or 2/3 or 3/4+ lanes blocked OR Fire w/ 1/3 or 2/4 lanes closed OR  
Hazmat w/ 2/4 lanes closed

*Severity 4:* All travel lanes blocked OR fatality OR Hazmat w/ clean-up OR Fire w/ 1/2, 2/3, 3/4 lanes closed  
OR Structural damage w/ 1/3, 2/3+ lanes closed

*Unknown:* Incidents without a recorded severity level

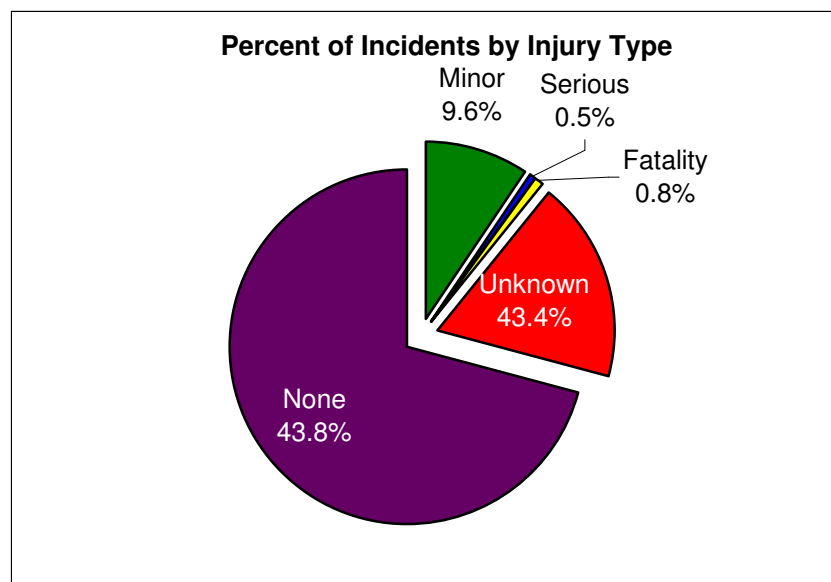
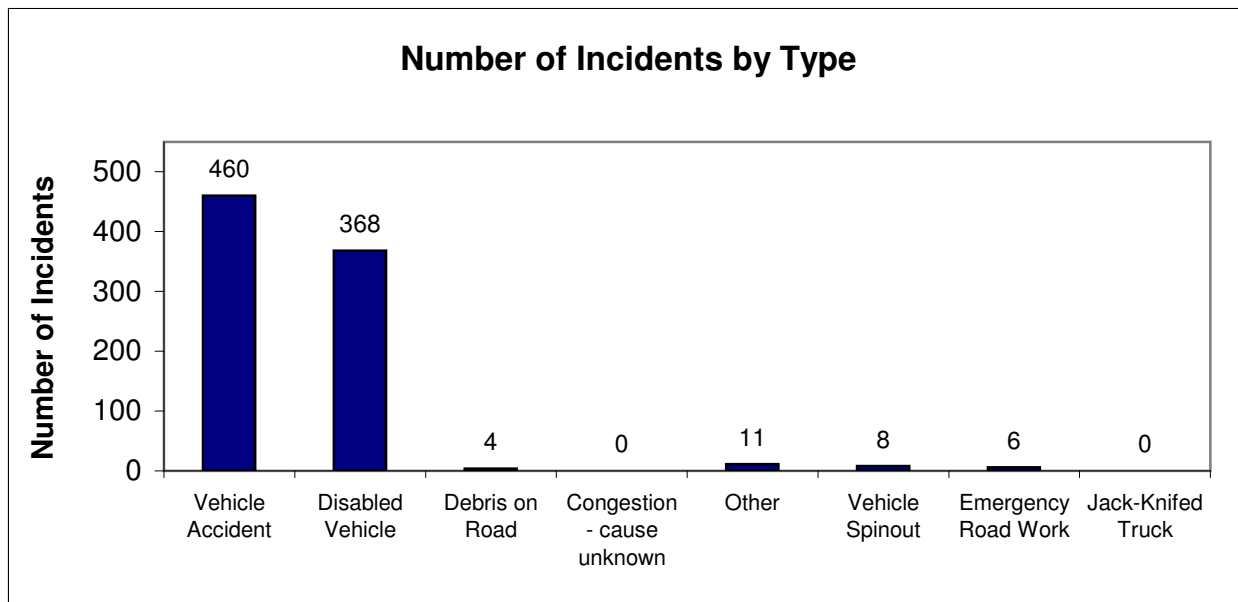
Note: For travel lanes blocked terminology, "1/4" indicates 1 out of 4 lanes blocked

#### 4. Incidents by Type

Incident Type	No. of Incidents
Vehicle Accident	460
Disabled Vehicle	368
Debris on Road	4
Congestion - cause unknown	0
Other	11
Vehicle Spinout	8
Emergency Road Work	6
Jack-Knifed Truck	0
<i>Total Number of Incidents</i>	<i>857</i>

#### 5. Incidents by Injury Type

Injury Type	No. of Incidents
Minor	85
Serious	4
Fatality	7
Unknown	162
None	629
<i>Total</i>	<i>887</i>



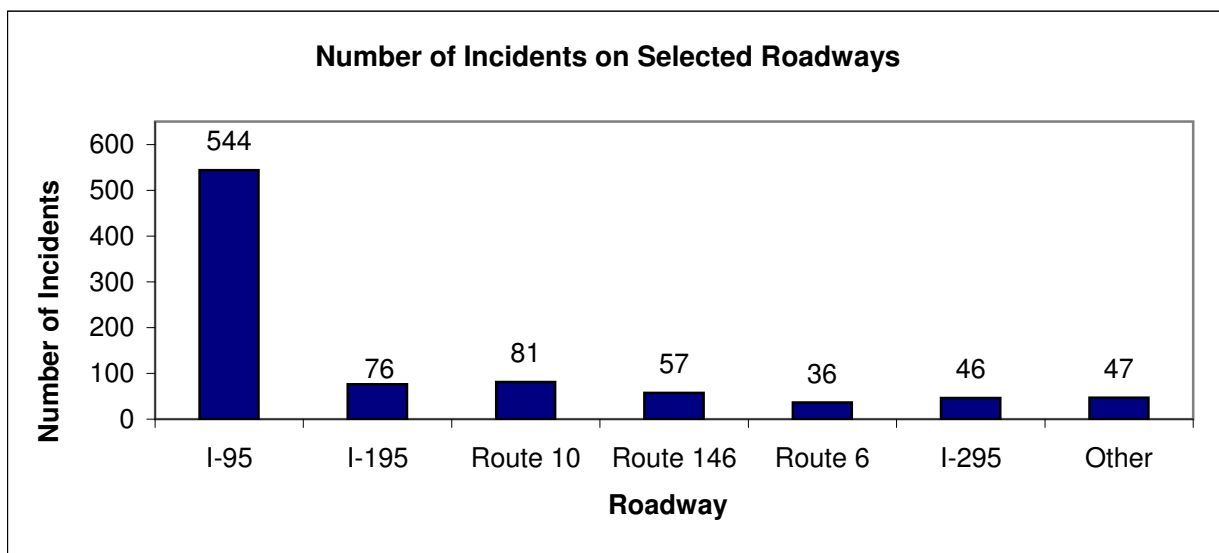
## 6. Incidents by Pavement and Weather Conditions

<b>Pavement Condition</b>	<b>No. of Incidents</b>
Dry	757
Wet	130
Icy	0
Snow-Covered	0
Flooded	0
Other	0
<i>Total</i>	<i>887</i>
<b>Precipitation</b>	
None	786
Light-moderate rain falling	88
Heavy rain falling	13
Light-moderate sleet falling	0
Heavy sleet falling	0
Light-moderate snow falling	0
Heavy snow falling	0
<i>Total</i>	<i>887</i>
<b>Wind</b>	
Calm to Moderate	865
Moderate to Strong	20
Gusts over 50 mph	0
Gusts over 75 mph	0
Hurricane	0
Other	0
N/A	2
<i>Total</i>	<i>887</i>
<b>Visibility</b>	
Clear	816
Light fog	13
Dense fog	1
Reduced- rain	56
Reduced-snow	0
Poor-heavy rain/sleet	1
Poor-heavy snow	0
Reduced-smoke	0
Other	0
N/A	0
<i>Total</i>	<i>887</i>

## 7. Incidents Detected by Primary Notifier on Selected Roadways

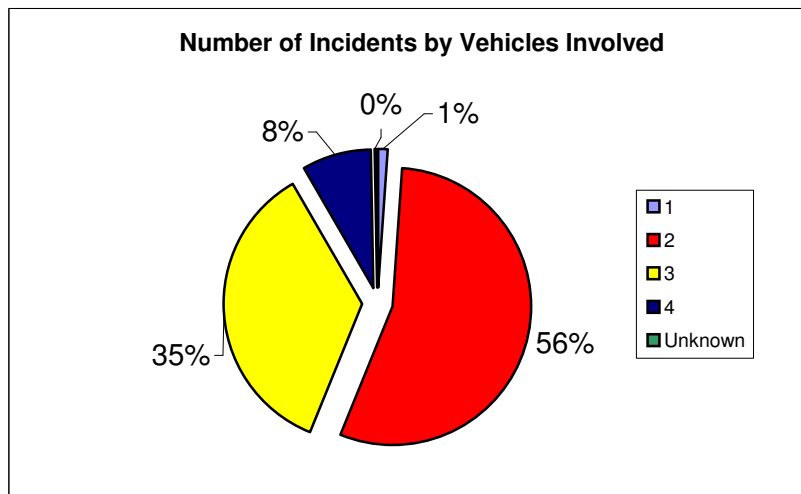
Roadway	Primary Notifier	No. of Incidents
I-195	TMC Operator	38
	State Police Scanner	24
	Local Fire Department	0
	Rhode Watcher	0
	Media/MetroNetworks	0
	Traffic.com	0
	TMC State Police	0
	Transcom	0
	Other	14
	<b>Total</b>	<b>76</b>
I-95	TMC Operator	277
	State Police Scanner	193
	Local Fire Department	0
	Rhode Watcher	1
	Media/MetroNetworks	0
	Traffic.com	0
	TMC State Police	0
	Transcom	1
	Other	72
	<b>Total</b>	<b>544</b>
I-295	TMC Operator	6
	State Police Scanner	28
	Local Fire Department	1
	Rhode Watcher	1
	Media/MetroNetworks	0
	Traffic.com	0
	TMC State Police	0
	Transcom	0
	Other	10
	<b>Total</b>	<b>46</b>

Roadway	Primary Notifier	No. of Incidents
Route 10	TMC Operator	34
	State Police Scanner	36
	Local Fire Department	0
	Rhode Watcher	0
	Media/MetroNetworks	0
	Traffic.com	0
	TMC State Police	0
	Transcom	0
	Other	11
	<b>Total</b>	<b>81</b>
Route 146	TMC Operator	15
	State Police Scanner	31
	Local Fire Department	0
	Rhode Watcher	0
	Media/MetroNetworks	0
	Traffic.com	0
	TMC State Police	0
	Transcom	0
	Other	11
	<b>Total</b>	<b>57</b>
Route 6	TMC Operator	21
	State Police Scanner	8
	Local Fire Department	0
	Rhode Watcher	1
	Media/MetroNetworks	0
	Traffic.com	0
	TMC State Police	0
	Transcom	0
	Other	6
	<b>Total</b>	<b>36</b>



## 8. Incidents by Number of Vehicles Involved

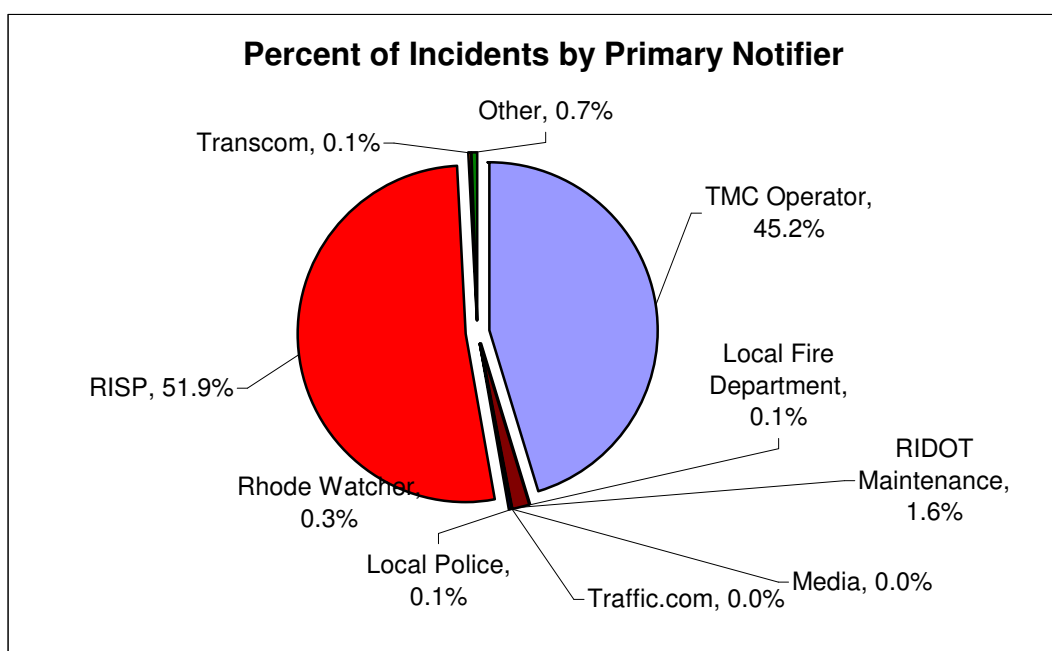
No. of Vehicles Involved	No. of Incidents
1	10
2	482
3	310
4	70
5	9
6	3
7	0
8	0
9	0
10+	0
Unknown	3
<b>Total Incidents</b>	<b>887</b>



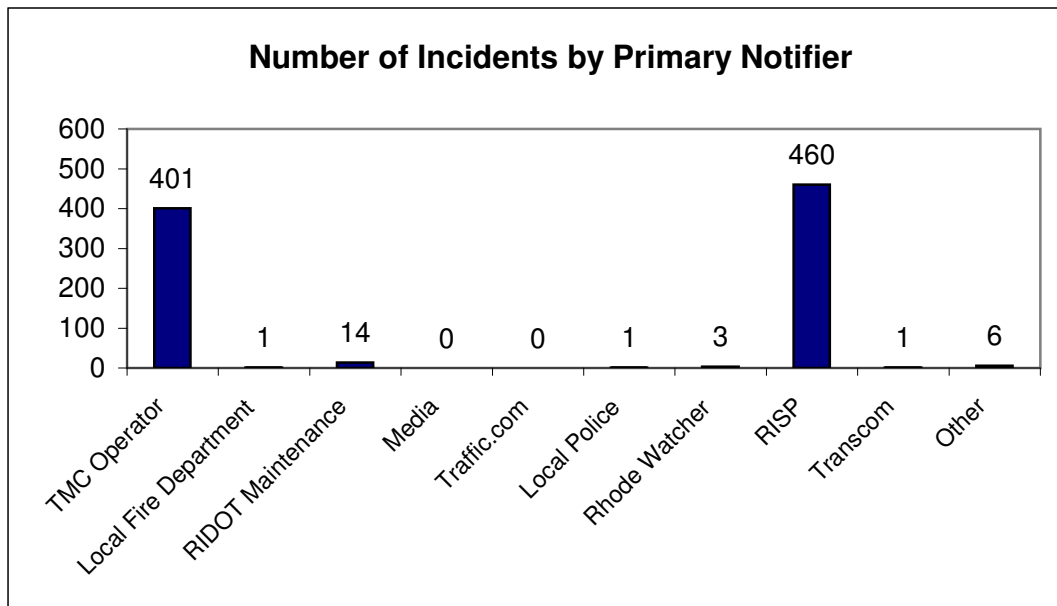
## 9. Incident Notification

Primary Notifier*	No. of Incidents
TMC Operator	401
Local Fire Department	1
RIDOT Maintenance	14
Media	0
Traffic.com	0
Local Police	1
Rhode Watcher	3
RISP	460
Transcom	1
Other	6
<b>Total</b>	<b>887</b>

\*First notifier of the incident to TMC

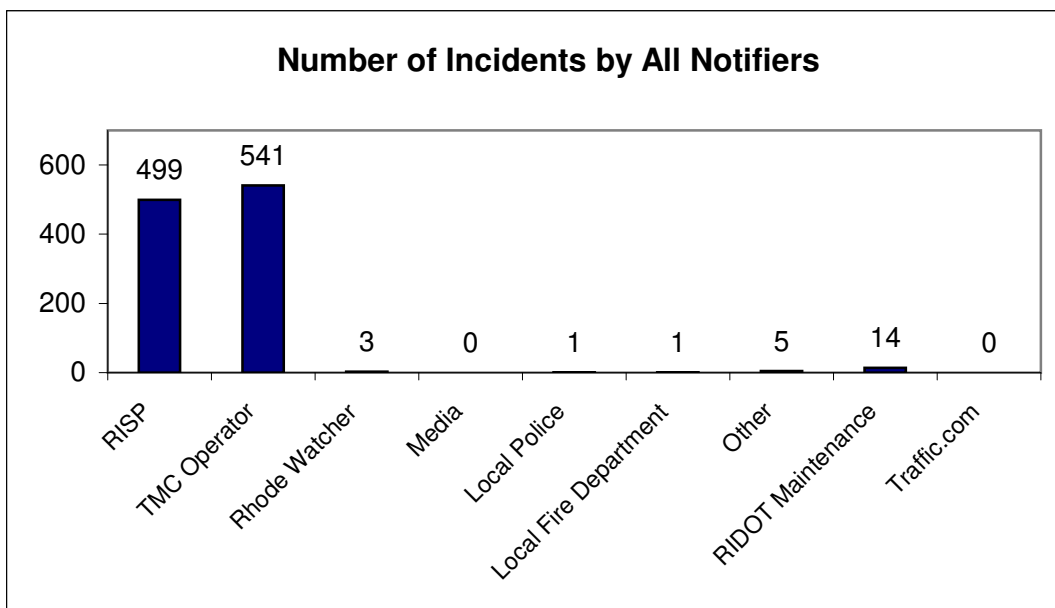






Notifier	No. of Incidents
RISP	499
TMC Operator	541
Rhode Watcher	3
Media	0
Local Police	1
Local Fire Department	1
Other	5
RIDOT Maintenance	14
Traffic.com	0
Transcom	1

*Note: Primary notifier indicates the first notifier of the incident to the TMC. Additional notifiers are also logged, and are represented in the statistics for "all notifiers".*



## 10. Incident Response

On-Scene Responding Agency	No. of Incidents	Percent of Total Incidents
State Police	667	75.20%
Tow	247	27.85%
Local Fire Department	170	19.17%
EMS	152	17.14%
Local Police	33	3.72%
Service Patrol	15	1.69%
Mass Highway	1	0.11%
DOT	12	1.35%
Hazmat	1	0.11%
DEM	1	0.11%
Connecticut DOT	0	0.00%
Construction	1	0.11%
Coast Guard	0	0.00%
Department of Health	0	0.00%
K-9	0	0.00%
RIPTA	0	0.00%

	# of Incidents
# Involved Equipment(HAR,VMS or CCVE)	365
# of VMS Messages	99
# of DMS Messages	307
# of HAR Messages	192
# of Web Messages	824

*Note: Numbers and percentages in upper table indicate how many of the incidents during the month were responded to by the agency indicated. Note that multiple agencies may respond to an incident, so percentages do not add up to 100%.*

